

Claims

1. A balloon for preparing for and easing human birth, which balloon is located at least partly inside the vagina of the pregnant woman during application and which is substantially conically shaped in an application region (P) between its outer end (A), which is provided with a fitting (1) for a flexible tube, and its vaginal portion with the largest diameter (D),
characterized in that
the application region (P) of the balloon adjoins the outer end of the crown region of the balloon in a conical portion, where it extends between an outer portion (a) and an inner portion (i) of the balloon approximately within the middle third of the balloon length, and in that the cone angle (β) in the application region is 25° or smaller.
2. A balloon according to claim 1,
characterized in that
the cone angle (β) is between 5 and 15° when the balloon is inflated.
3. A balloon according to claim 1,
characterized in that,
in the inflated condition, its diameter (D) in the crown region is about 9 cm and in that its length, measured from the inner end to the outer end of the application region (P), is 10 to 15 cm.

4. A balloon according to claim 1,
characterized in that,
its unpressurized envelope (H1) has a wall thickness that decreases from outside
to inside, at least in the application region.

5. A balloon according to claim 1,
characterized in that,
its unpressurized envelope (H2), measured in the pressure condition of equal
external and internal pressures, has a conical shape corresponding to the
application region (P).

6. A balloon according to claim 1,
characterized in that,
its unpressurized envelope (H3) is pre-stretched in the application region (P), such
that the application region (P) assumes, in the inflated condition of the balloon, a
shape that flares as desired from its outer portion (a) to its inner portion (i).

7. A balloon according to claim 1,
characterized in that,
its unpressurized envelope (H4), measured in the pressure condition of equal
external and internal pressures, is constricted in the form of a waist in the
application area (P), and in that the wall thickness in the outer portion of the
envelope (H4) adjoining the waist (8) is larger than in the application area (P).

8. A balloon according to claim 4,
characterized in that,
its unpressurized envelope (H1) has cylindrical shape when the external and
internal pressures are equal, and in that the wall thickness of the envelope (H1)
decreases from outside to inside.

9. A balloon according to claim 1,
characterized in that,
a connecting fitting (1) in the form of a flexible tube is molded onto its outer end
(A) and is stiffened by a tubular insert (2).